PROJECT TITLE	:	INSTRUMENTATION AND PROCESS AUTOMATION
PERIOD COVERED	:	23 SEPTEMBER 1981 - 22 OCTOBER 1981
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Automation of the Smoking Laboratory (Project COLDAC)

We have just received the instruments for this project (computers and peripherals). Between 2 and 16 November we shall start to put the RTE IVB system into operation. This will include setting up the following software which will enable us to programme our application more efficiently :

IMAGE 1000	:	Data-base management and query software;
DATACAP 1000 II	:	Software for terminal management on a multi-point line ("Data-link") with interactive collection of the analytical results;
GRAPHIC 1000 II	:	Software for processing graphic peripherals and for evaluating the analytical results;
EDIT 1000	:	Text and programme editor.

We shall also install the FORTRAN 4X and the BASIC 1000D which are completed by a large library containing scientific routines.

RTD/DIL Data Processing

The programme for the monthly and daily analyses of the RTD and DIL results is currently being tested in the QA laboratories.

Some problems were encountered with the direct link-up of the HP 85 to the SODIM measuring head and we are currently trying to solve them. These problems arise partly from different electrical interferences from the production machines. The direct link-up has been postponed until the end of November.

Construction of Measuring Instruments

The series of compressibility instruments (FTR model) planned for the QA laboratories in Richmond are being produced according to schedule. We are also now finishing small units for various PME affiliates; these units are used for automatically emptying cigarettes.

Nitrate-Monitoring

The transfer of the instrument used for this is currently being prepared. We are now adapting the HP 85 programmes to improve

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security and to simplify its usage. To achieve this we shall introduce an auto-start programme to set off the system again after a power failure. When this happens, the programme will search default parameters in a file on the magnetic cartridge of the HP 85. The parameters which are periodically updated should state the nitrate values obtained during the last hours of regulation.

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